

**These are the Draft Plans of Emission Reduction Strategies for the Upper Savannah Region submitted for the
December 10, 2003 Early Action Compact Milestone.**

Early Action Compact Milestone - December 2003
List of Emission Reduction Strategies Under Consideration

Abbeville County

Based on stakeholder consultation and taking into consideration resource and political constraints, the following control measures under consideration can be reasonably implemented. It is anticipated these measures under consideration will assist Abbeville County in achieving and/or maintaining the 8-hour ozone standard by 2007 and beyond.

| Measure under consideration | Detailed description of measure | Current assessment of emission reductions | Proposed date for implementation | Geographic area and/or local government |
|--|---|---|----------------------------------|---|
| Work with local media for public awareness | <ul style="list-style-type: none"> PSA's to local newspapers, radio and television stations | | On-going | Countywide |
| Open burning on high ozone days | <ul style="list-style-type: none"> Solicit cooperation of State and Federal | | On-going | Countywide |
| Mowing | <ul style="list-style-type: none"> Encourage County, municipalities and citizens not to mow during high ozone days | | On-going | Countywide |
| Vehicles | <ul style="list-style-type: none"> Encourage County and municipalities to practice not idling government vehicles when practical. Fill automobiles with gas after 6 p.m. when possible Consider alternate schedule for County and Municipal Services County and Municipalities will explore purchasing more fuel efficient and low emission level vehicles when replacements are needed when economically feasible. | | Ongoing | Countywide |
| Education | <ul style="list-style-type: none"> Work cooperatively with School District | | Ongoing | Countywide |

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List of Emission Reduction Strategies under Consideration

Edgefield County

According to the latest 8-hour ozone monitoring data, Edgefield County should remain attainment for the 8-hour ozone standard. However, in an effort to assist other areas in South Carolina and in the interest of public health and the environment, in December 2002, Edgefield County agreed to participate in the 8-hour ozone early action process. Therefore, based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. Edgefield County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.

| Measure under consideration | Detailed description of measure | Current assessment of emission reductions | Proposed date for implementation | Geographic area and/or local government |
|---|--|---|----------------------------------|---|
| Air Quality Contact | Guy Mueller: 129 Courthouse Square Suite 104 Edgefield S.C. 29824 803-637-4073 Email: gmueller@edgefieldcounty.sc.gov | Working with BP Amoco Oil (Sweetwater Terminal) Directionally sound | Ongoing | County Wide |
| Support State-wide efforts | Edgefield County will support the efforts of SC DHEC regarding state-wide | Directionally sound | Ongoing | County Wide |
| Edgefield County Road Maintenance Department | Edgefield County Road Maintenance Dept. will consider clean air goals in purchasing of new equipment | Directionally sound | Ongoing | County Wide |
| Edgefield County Fleet | Edgefield County Fleet will consider air quality goals on the purchase of fleet vehicles | Directionally sound | Ongoing | County Wide |
| Edgefield County Building & Planning Department | Edgefield County Building & Planning Dept. will use energy efficient strategies in inspections of residential dwellings and commercial buildings | Directionally Sound | Ongoing | County Wide |

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List of Emission Reduction Strategies Under Consideration

Greenwood County

According to the latest 8-hour ozone monitoring data, Greenwood County should remain in attainment for the 8-hour ozone standard. However, in an effort to assist other areas in South Carolina and in the interest of public health and the environment, in December 2002, Greenwood County agreed to participate in the 8-hour ozone early action process. Therefore, based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. Greenwood County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.

Greenwood County Early Action Compact Mileston - December 2003
List of Emission Reduction Strategies Under Consideration

| Emission Reduction Strategy Under Consideration | Description of Implementation Item | Current Assessment of Emission Reductions |
|---|--|--|
| Land Use - Mixed-Use Development | | |
| Goal - "The location of stores, restaurants, offices, schools, recreation and jobs within close proximity of residential" | | |
| Allow Mixed-Use Developments | Revise Development Standards to Allow Mixtures of Land Uses in Zoning Districts | N/A |
| Develop Incentives for Mixed-Use Developments | Revise Development Standards to Provide Incentives for Mixed-Use Developments | N/A |
| Encourage Home Occupations | Revise Development Standards to Encourage Home Occupations | N/A |
| Encourage Housing in/near Large-Scale Commercial Developments | Revise Development Standards to Encourage Housing Near Service Areas | N/A |
| Encourage Incentives for the Inclusion of Pedestrian and Bike Paths | Revise Development Standards to Include Incentives for Alternative Modes of Transportation | N/A |
| Benefits to Reduce Ozone | | |
| -- Lessens Vehicle Trips -- Encourages Alternative Modes of Travel -- Promotes Bicycle and Pedestrian Travel that Could Replace 18 to 25% of Vehicle Trips -- Reduces Energy Consumption by up to 30% if 1 in 10 trips for Shopping or Personal Business was Made on Foot -- Savings of 50% of Auto-Related Energy can be Realized when New Residential Developments include Higher Density Housing | | |
| Land Use - Compact Development and Clustering | | |

Goal - "To concentrate development, thus reducing the ambient air quality from impervious surfaces and shorter vehicle trips"

| | | |
|--|---|-----|
| Allow Compact Development and Clustering | Revise Development Standards to Allow Developers Incentives to Cluster Residential Units Together | N/A |
| Provide Tax Incentives/Fee Reductions for Compact and Cluster Projects | Revise Development Standards to Provide Reductions in Fees for Cluster Projects | N/A |

Benefits to Reduce Ozone

- Shortens Vehicle Trips
- Reduce Summer Air Temperatures by Reduced Impervious Surfaces
- Provides Efficient Use of Public Services in a Small Geographic Area
- Reduces Vehicle Miles Traveled by 25 to 30% when Density is Doubled

Transportation - Street and Parking Design

Goal - "Provide Energy-Efficient Standards for Road Design and Layout, Construction Techniques and Materials, Traffic Optimization and Parking Design"

| | | |
|--|---|-----|
| Develop Provisions for Safe and Convenient Pedestrian and Bicycle Travel | Develop Sidewalk and Pedestrian Plan Which Outlines Proposed Alternatives to Alternative Travel | N/A |
| Continue to Upgrade Traffic Signal Optimization Measures | Assist SC DOT to Upgrade Traffic Signals for Travel Efficiency | N/A |
| Evaluate Street Design Standards to Promote Energy Efficiency | Revise Development Standards to Include Design Standards that Promote Energy Efficiency | N/A |

Benefits to Reduce Ozone

- Encourages Alternative Modes of Travel
- Optimizes Travel
- Shortens Vehicle Trips by Providing Shorter and More Direct Routes
- Reduces Vehicle Miles Traveled by up to 60% When Traditional Street Networks are Used
- Reduces Vehicle Speeds by Utilizing Appropriate Sizing and Design of Streets
- Reduces Ambient Air Temperatures Through Reduced Impervious Surfaces
- Reduces Traffic Congestion and Fuel Consumption by up to 19%

Transportation - Multi-Modalism

Goal - "Individual Transportation Modes Working Together to Provide Alternatives such as Mass Transit, Rail, Bicycle, or Pedestrian Travel"

| | | |
|---|--|-----|
| Encourage Alternative Modes of Transportation in New Developments | Revise Development Standards to Encourage Sidewalks, Bike Trails, etc. in Developments | N/A |
| Provide for Pedestrian and Bicycle Paths in New Developments | Revise Development Standards to Encourage Sidewalks, Bike Trails, etc. in Developments | N/A |
| Encourage New Development to Connect Transportation Facilities Together | Revise Development Standards to Connect Developments Together to Promote Transportation Linkages | N/A |

Benefits to Reduce Ozone

- Provides Alternatives to Vehicle Trips

- Eliminates up to 3% of all Personal Vehicle Trips and Reduces Fuel Use by More Than 1% if Trips 5 Miles or Less Were Made by Bike or on Foot
- Reduces Total Vehicle Trips From 2 to 5% if 20 to 50% of Trips Less than 1/2 Mile Were Made on Foot or by Bicycle

| Emission Reduction Strategy Under Consideration | Description of Implementation Item | Estimate of Emission Reductions (if available) |
|---|---|---|
| Transportation - Travel Alternatives | | |
| Goal - "Reduce Vehicular Traffic and Conserve Energy through the Use of Advanced Technology and Workplace Practices" | | |
| Encourage Telecommuting and Home Occupations | Revise Development Standards to Encourage Individuals to Work From Home | N/A |
| Develop Partnerships for the Enhanced Usage of Teleconferencing Facilities | Develop a Feasibility Study for Local Organizations to Develop Teleconferencing Facilities | N/A |
| Benefits to Reduce Ozone | | |
| -- Reduces One Round Vehicle Trip for Each Day a Worker Telecommutes | | |
| -- Removes Extended Vehicle Trips for Meetings and Training Held at Local Teleconferencing Facilities | | |
| Environmental - Alternative Fuels | | |
| Goal - "Reduce Traditional Gasoline and Diesel Fuel Usage Through Alternative Methods" | | |
| Educate the Public on Availability and Benefits of Alternative Fuels | Develop Public Meetings, Ads, Brochures to Address the Educational Needs of the Local Community | N/A |
| Promote the Usage of Alternative Fuels by Local Governments and Agencies | Develop an Alternative Fuel Fleet Program that Analyzes and Promotes Fuel Efficiency | N/A |
| Incorporate the Use of Alternative Fuels into Local Government Operations | Develop a Fuel Efficiency Program that Evaluates the Benefits of the Use of Alternative Fuels | N/A |
| Benefits to Reduce Ozone | | |
| -- Reduces Impacts to the Environment | | |
| Community Facilities - Administration, Policies and Education | | |
| Goal - "To Serve as a Community Example Through Management, Procedures and Training" | | |
| Continue to Enforce Speed Limits | Assist City, County and SCHP in the Enforcement of Local Speed Limits | N/A |
| Develop a Comprehensive Energy Conservation Program (CECP) | Develop CECP to Evaluate Energy Conservation Programs for Implementation | N/A |
| Expand and Promote Teleconferencing Facilities | Develop a Feasibility Study for Local Organizations to Develop Teleconferencing Facilities | N/A |
| Promote the Use of Alternative Modes of Travel by Employees | Develop Public Meetings, Ads, Brochures to Address the Educational Needs of the Local Community | N/A |
| Benefits to Reduce Ozone | | |
| -- Reduces Energy Costs by as Much as 15% Without Affecting the Level of Service | | |

- Reduces Energy Waste and Promotes Conservation through Employee Education
- Reduces Vehicle Trips by Alternative Modes of Travel, Carpooling, Telecommuting, and Teleconferencing

Community Facilities - Site Location

Goal - "The Selection of Sites for New Community Facilities Based on Energy Objectives"

| | | |
|---|--|-----|
| Locate New Facilities Near Transit, Bicycle and Pedestrian Facilities | Develop CECP to Evaluate Energy Conservation Programs for Implementation | N/A |
| Locate New Facilities Near Mixed-Use Developments | Develop CECP to Evaluate Energy Conservation Programs for Implementation | N/A |
| Work with School Districts and Other Govt Organizations in Site Selection | Develop CECP to Evaluate Energy Conservation Programs for Implementation | N/A |

Benefits to Reduce Ozone

- Provides Alternatives to Vehicle Trips
- Reduces Vehicle Traffic When Similar Uses are Located Together and Within Adequate Walking Distance
- Reduces Vehicle Trips When Additional Uses are Clustered Together Within Close Proximity

Community Facilities - Fleet Efficiency

Goal - "To Optimize Fleet Vehicles (Equipment, Systems, Maintenance and Management Procedures) Based on Energy Standards"

| | | |
|--|--|-----|
| Replace Older Vehicles with More Energy-Efficient Models | Develop an Alternative Fuel Fleet Program that Analyzes and Promotes Fuel Efficiency | N/A |
| Provide Regular Maintenance for Vehicles | Develop a Fuel Efficiency Program | N/A |
| Assign Vehicles Appropriate to the Task | Develop a Fuel Efficiency Program | N/A |
| Train Maintenance Staff in Procedures that Will Save Energy | Develop a Fuel Efficiency Program | N/A |
| Train Personnel in Fuel Efficient Driving Techniques | Develop a Fuel Efficiency Program | N/A |
| Incorporate the Use of Alternative Fuels Within the Fleet System | Develop an Alternative Fuel Fleet Program that Analyzes and Promotes Fuel Efficiency | N/A |

Benefits to Reduce Ozone

- Increases Fuel Efficiency Through Operation Procedures and Practices
- Improves Fuel Economy From 1 to 5% Through Regular Maintenance
- Increases Energy Savings Over Time Through the Replacement of Older Vehicles and Assigning Vehicles to the Correct Purpose

| Emission Reduction Strategy Under Consideration | Description of Implementation Item | Estimate of Emission Reductions (if available) |
|---|------------------------------------|--|
|---|------------------------------------|--|

Economic Development - Revitalization and Infill

Goal - "To Reduce Energy Costs through the Use of Existing Properties in Close Proximity to Existing Infrastructure"

| | | |
|---|--|-----|
| Encourage Economic Development Efforts to Reuse Existing Properties | Develop CECP to Evaluate Energy Conservation Programs for Implementation | N/A |
| Develop Database on Vacant, Underutilized Properties | Develop CECP to Evaluate Energy Conservation Programs for Implementation | N/A |
| Develop Incentives for the Reuse or Infill of Existing Properties | Develop CECP to Evaluate Energy Conservation Programs for Implementation | N/A |

Benefits to Reduce Ozone

- Provides Alternatives to Vehicle Trips

- Reduces Vehicle Traffic When Similar Uses are Located Together and Within Adequate Walking Distance
- Reduces Vehicle Trips When Additional Uses are Clustered Together Within Close Proximity

Community - Planning Programs

Goal - "To Identify Programs and Actions that Can Reduce Ozone Production and Minimize the Associated Hazards"

| | | |
|---|--|-----|
| Develop Seasonal Ozone Awareness Program (SOAP) including: Promotion of Employee Education and Action Development of Educational Materials/Brochures for Disbursement Public Service Announcements Notification of Health Warnings Notification of Open Burning Bans Notification of Small Engine/Lawn Mower Warnings Notification of Engine Idling Warning s Promotion of Ozone Awareness Through Public Presentations | Develop SOAP | N/A |
| | | |
| Develop Ozone Reduction Action Plan (ORAP) including: Appointment of Ozone Action Coordinator Idling Restrictions Lawn Mower/Small Engine Restrictions Postpone Refueling to Evening Hours Transition to Alternative Work Schedules and Flexible Lunch Hours | Develop ORAP | N/A |
| | | |
| Develop an Energy Element to the Comprehensive Plan | Develop Energy Element that Outlines the Energy Usage throughout the County and Plans for the Future Needs of the County's Energy Demand | N/A |

Benefits to Reduce Ozone

- Assists EPA and SCDHEC in Public Notifications and Education
- Reduces Greenwood County's Impacts on the Environment

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List of Emission Reduction Strategies Under Consideration

Laurens County

According to the latest 8-hour ozone monitoring data, Laurens County should remain attainment for the 8-hour ozone standard. However, in an effort to assist other areas in South Carolina and in the interest of public health and the environment, in December 2002, Laurens County agreed to participate in the 8-hour ozone early action process. Therefore, based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. Laurens County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.

| Measure under consideration | Detailed description of measure | Current assessment of emission reductions | Proposed date for implementation | Geographic area and/or local government |
|------------------------------|--|---|----------------------------------|---|
| Air Quality Contact | Scott Holland, Dir. Of Public Works is identified as the Air Quality Contact. At a minimum, this contact will be responsible for ozone education outreach and dissemination of ozone forecast. | N/A | March 2003 | County wide |
| Support state-wide efforts | Laurens County will support the efforts of SC DHEC regarding state-wide emission reduction strategies. | N/A | March 2003 | County wide |
| Reduce motorized activities | Laurens County will delay or reschedule mowing and motorized construction and maintenance activities on Ozone Action Days where practical. | N/A | July 2003 | County wide |
| Restrict Painting Activities | Laurens County will restrict indoor and outdoor painting activities on Ozone Action Day where practical. | N/A | July 2003 | County wide |
| Commuter Actions | Laurens County will encourage ridesharing for all employees in the performance of their duties where practical. | N/A | July 2003 | County wide |

SALUDA

According to the latest 8-hour ozone monitoring data, Saluda County should remain attainment for the 8-hour ozone standard. However, in an effort to assist other areas in South Carolina and in the interest of public health and the environment, in December 2002, Saluda County agreed to participate in the 8-hour ozone early action process. Therefore, based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. Saluda County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.

| Measure under consideration | Detailed description of measure | Current assessment of emission reductions | Proposed date for implementation | Geographic area and/or local government |
|-----------------------------|--|---|----------------------------------|---|
| Air Quality Contact | One person will be identified as the Air Quality Contact. At a minimum this contact will be responsible for ozone Education/outreach and dissemination of ozone forecast | N/A | April 2005 | County wide |
| Support statewide efforts | Saluda County will support the efforts of SC DHEC Regarding state-wide emission reduction strategies | N/A | April 2005 | County wide |